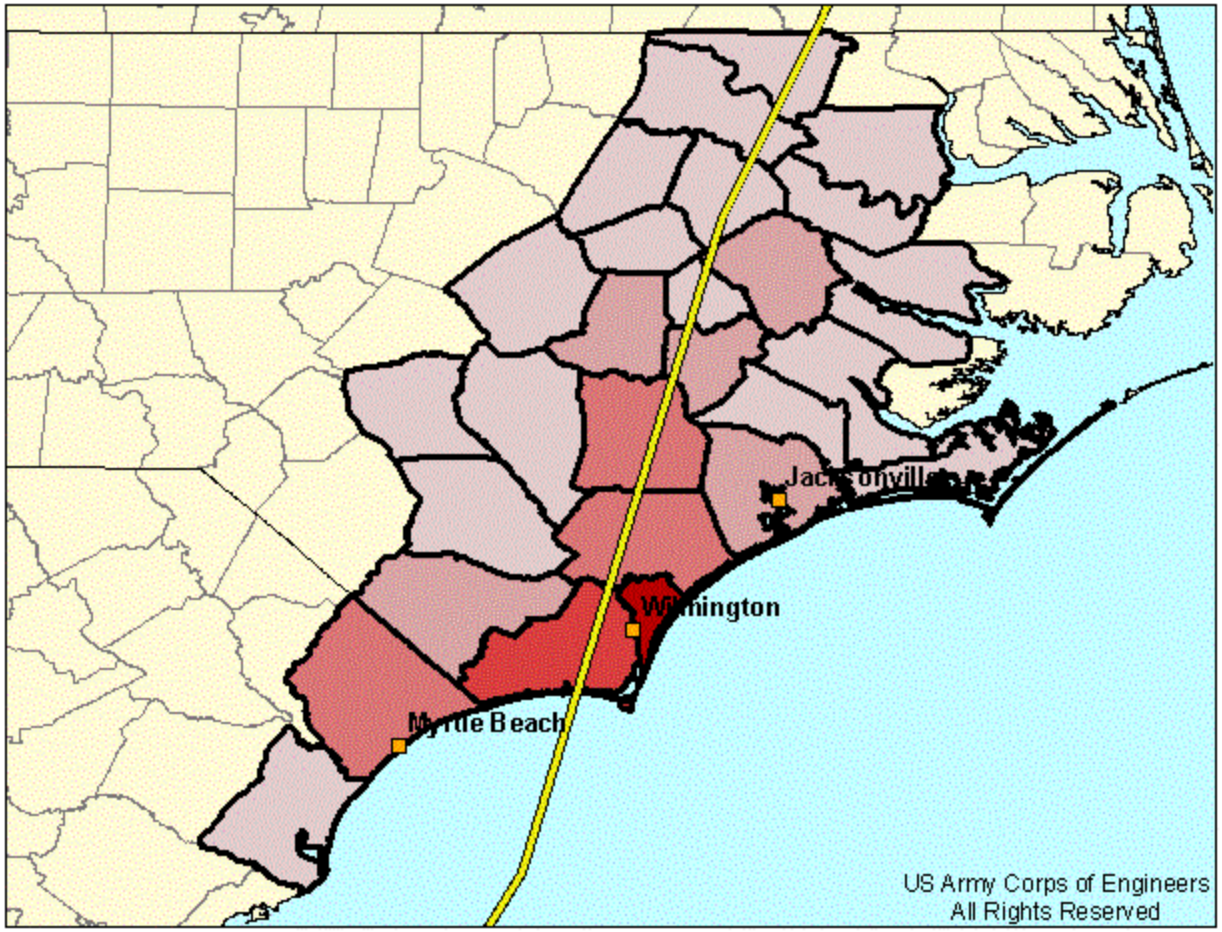
US Army Corps of Engineers

Hurricane Ernesto 2006 Debris Model

Landfall Plus About **12** Hours

For Planning Purposes Only!



Post Landfall Debris Model Results

North Carolina - 4,923,000 Yards
South Carolina - 397,000 Yards

Model results per County on following page

This model is based on a Category 2 storm making landfall near Holden Beach, NC.

Historic Track

Debris

- < 100,000 cubic yards
- 100,000 - 249,999 cubic yards
- 250,000 - 499,999 cubic yards
- 500,000 - 999,999 cubic yards
- >1,000,000 cubic yards

Information provided on this page displays a Category 2 storm making landfall near Holden Beach, NC. These projections are based on information from the NHC (0900 EDT 05/14/2008) forecast. The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds, but does not include volume that may be covered by private insurance. Debris volume may include storm surge generated debris.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Ernesto 2006 Debris Model

Generated By:
Siemsen, LRL 0930 EDT 05/14/2008

Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Ernesto 2006 Debris Model

Landfall Plus About 12 Hours

For Planning Purposes Only!

State	Yards per State	County	Yards per County
North Carolina		Beaufort	6,000
		Bertie	< 1,000
		Bladen	45,000
		Brunswick	888,000
		Carteret	14,000
		Columbus	106,000
		Craven	66,000
		Cumberland	< 1,000
		Duplin	300,000
		Edgecombe	63,000
		Greene	39,000
		Halifax	9,000
		Johnston	10,000
		Jones	24,000
		Lenoir	137,000
		Martin	9,000
		Nash	5,000
		New Hanover	1,980,000
		Northampton	< 1,000
		Onslow	237,000
		Pender	494,000
		Pitt	182,000
		Sampson	80,000
		Wayne	155,000
		Wilson	74,000
North Carolina	4,923,000		
South Carolina		Georgetown	19,000
		Horry	378,000
South Carolina	397,000		

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds, but does not include volume that may be covered by private insurance. Debris volume may include storm surge generated debris.

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Hurricane Ernesto 2006 Debris Model

Generated By:
Siemsen, LRL 0930 EDT 05/14/2008

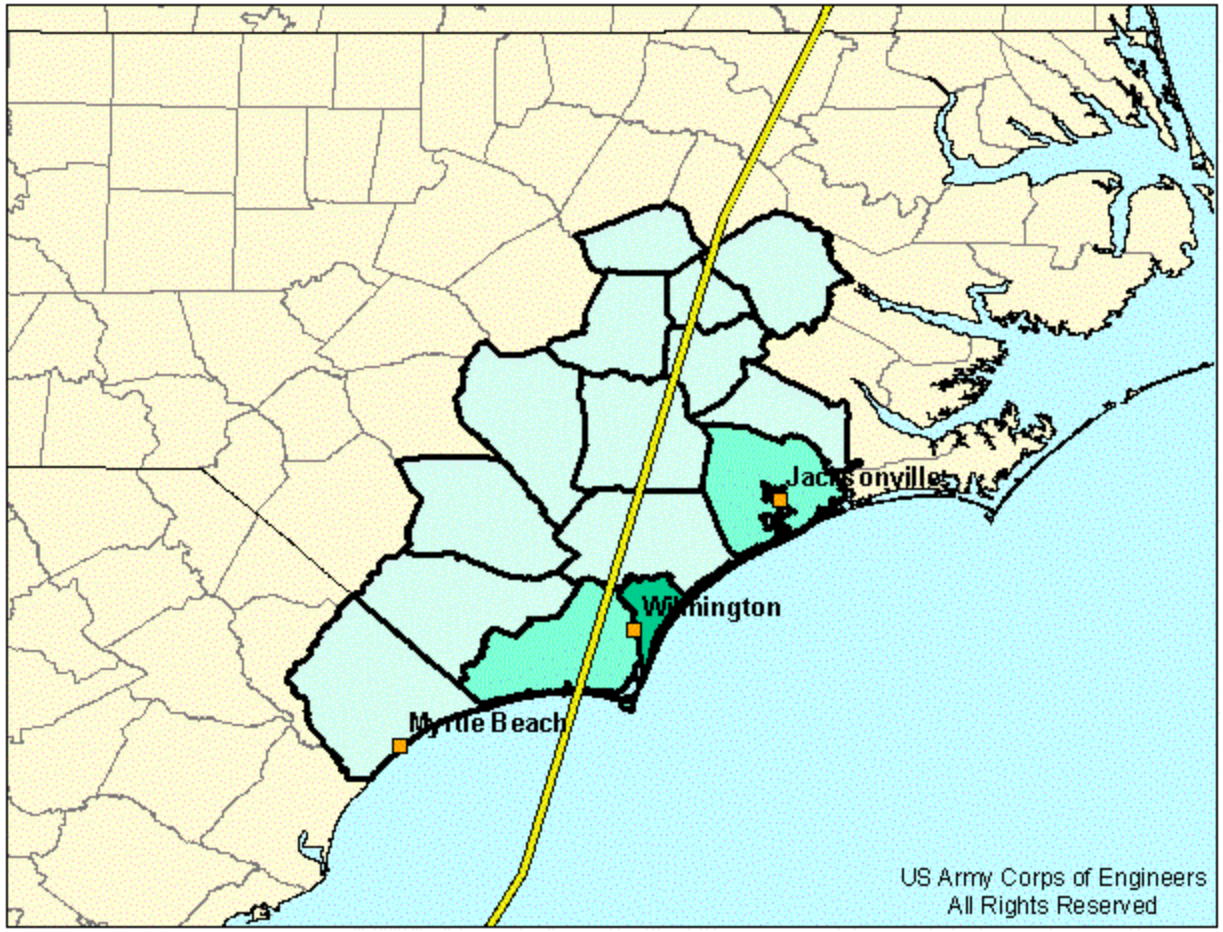
Sources:
HURREVAC
LRL-DEBRIS

Hurricane Ernesto 2006 Commodities Model

US Army Corps of Engineers

Landfall Plus About **12** Hours

For Planning Purposes Only!



Post Landfall Water Model Results

Day One / Day Two / Day Three
NC – 12/24/47 Truckloads
SC – 1/2/4 Truckloads

Model results per County on following page

This model is based on a Category 2 storm making landfall near Holden Beach, NC.

Historic Track

Commodities

- < 5 Trucks Each
- 5 - 10 Trucks Each
- 11 - 20 Trucks Each
- 21 - 40 Trucks Each
- > 40 Trucks Each

Information provided on this page displays a Category 2 storm making landfall near Holden Beach, NC. These projections are based on information from the NHC ***(0900 EDT 05/14/2008)*** forecast. The amount of commodities forecasted is based on Mission Guide Book requirements and SME input. The graphic represents single day needs with full distribution system in place and operating.

Details about this model may be obtained at http://www.englink.usace.army.mil
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Hurricane Ernesto 2006 Commodities Model	
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Sources: HURREVAC LRL-DEBRIS	Page 3 of 12

US Army Corps of Engineers

Hurricane Ernesto 2006 Commodities Model

Landfall Plus About 12 Hours

For Planning Purposes Only!

State	Truckloads per State	County	Truckloads per County
North Carolina		Bladen	1
		Brunswick	7
		Columbus	1
		Duplin	4
		Greene	2
		Jones	1
		Lenoir	4
		New Hanover	13
		Onslow	5
		Pender	4
		Pitt	1
		Sampson	1
		Wayne	2
		Wilson	1
North Carolina	47		
South Carolina		Horry	4
South Carolina	4		

The amount of commodities forecasted is based on Mission Guide Book requirements and SME input and the above table indicates suggested needs based on phased deployment of a commodities distribution system.

Details about this model may be obtained at http://www.englink.usace.army.mil
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Hurricane Ernesto 2006 Commodities Model

Generated By:
Siemsen, LRL 0930 EDT 05/14/2008

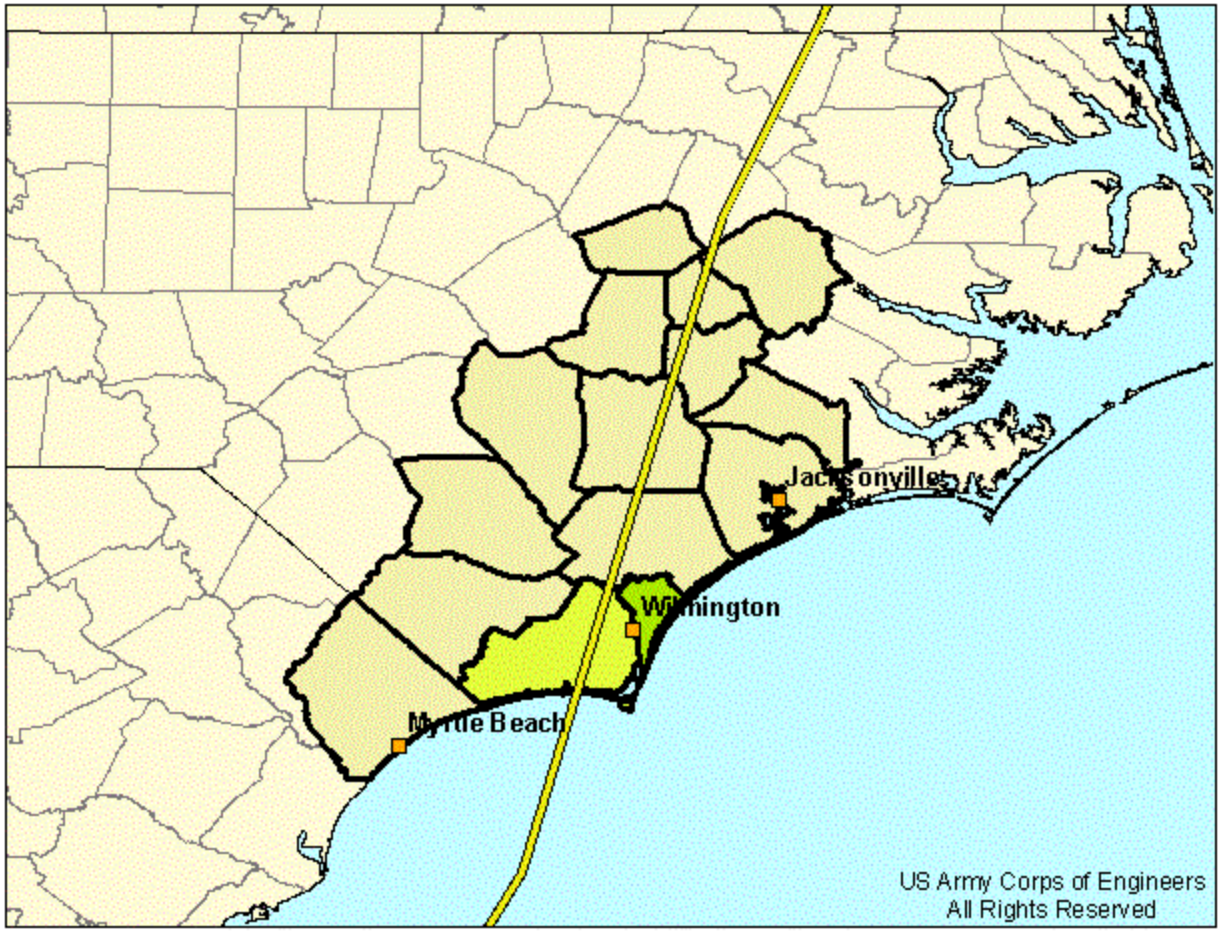
Sources:
HURREVAC
LRL-DEBRIS

Hurricane Ernesto 2006 Temporary Roofing Model

US Army Corps of Engineers

Landfall Plus About 12 Hours

For Planning Purposes Only!



Post Landfall Temporary Roofing Model Results

North Carolina - 11,100
South Carolina - 700

Model results per County on following page

This model is based on a Category 2 storm making landfall near Holden Beach, NC.

Historic Track

Temporary Roofing

- < 2,000 units
- 2,000 - 3,999 units
- 4,000 - 5,999 units
- 6,000 - 9,999 units
- > 10,000 units

Information provided on this page displays a Category 2 storm making landfall near Holden Beach, NC. These projections are based on information from the NHC (0900 EDT 05/14/2008) forecast. Temporary roofing is based on 3% in CAT 1 and 6% in CAT 2.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Ernesto 2006 Roofing Model

Generated By:
Siemsen, LRL 0930 EDT 05/14/2008

Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Ernesto 2006 Temporary Roofing Model

Landfall Plus About 12 Hours

For Planning Purposes Only!

State	House Units per State	County	House Units per County
North Carolina		Bladen	< 100
		Brunswick	2,100
		Columbus	200
		Duplin	900
		Greene	200
		Jones	< 100
		Lenoir	700
		New Hanover	4,700
		Onslow	700
		Pender	1,100
		Pitt	< 100
		Sampson	200
		Wayne	300
		Wilson	< 100
North Carolina	11,100		
South Carolina		Horry	700
South Carolina	700		

Temporary roofing is based on 3% in CAT 1 and 6% in CAT 2.

Details about this model may be obtained at http://www.englink.usace.army.mil
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Hurricane Ernesto 2006 Roofing Model

Generated By:
Siemsen, LRL 0930 EDT 05/14/2008

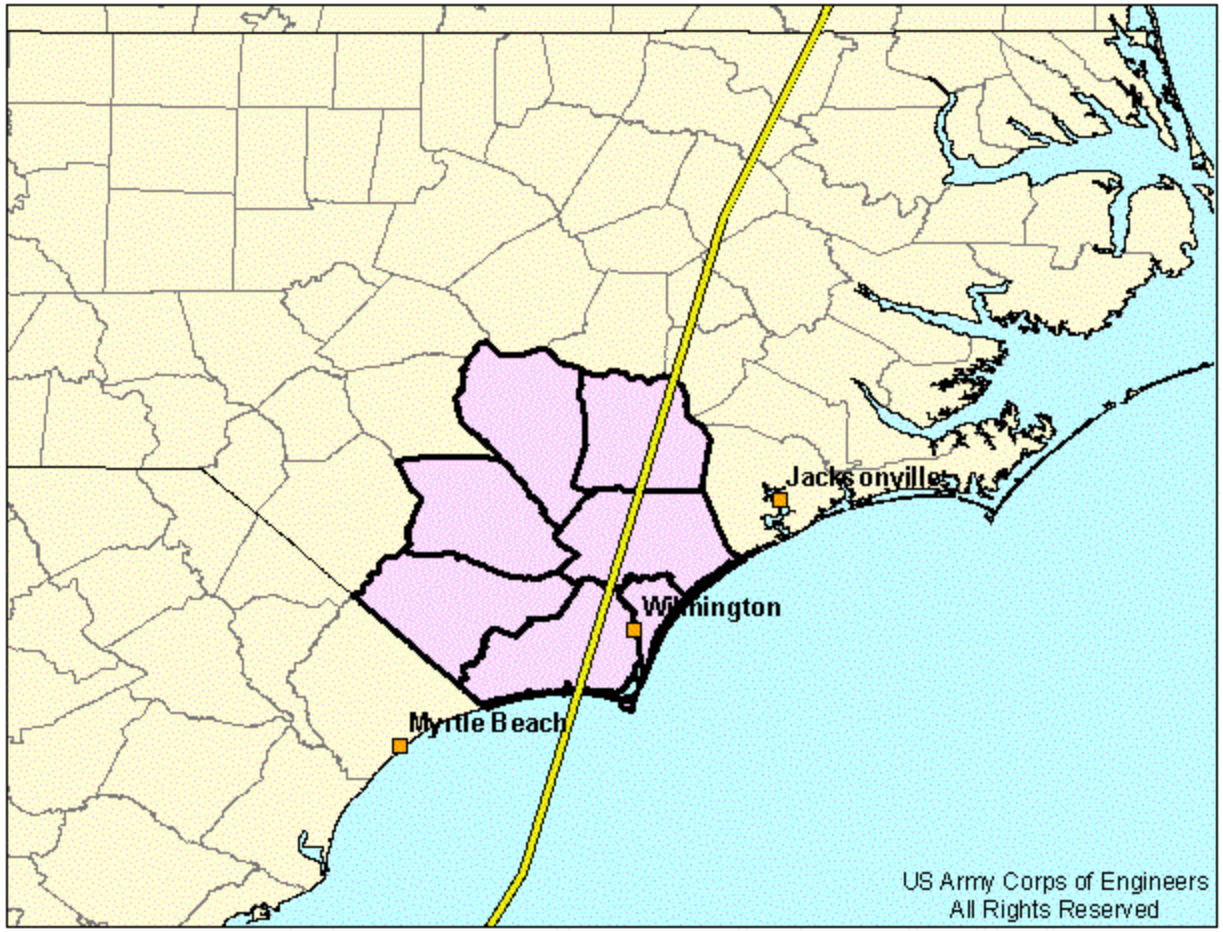
Sources:
HURREVAC
LRL-DEBRIS

Hurricane Ernesto 2006 Temporary Housing Model

US Army Corps of Engineers

Landfall Plus About 12 Hours

For Planning Purposes Only!



Post Landfall Temporary Housing Model Results

North Carolina - 1,300

Model results per County on following page

This model is based on a Category 2 storm making landfall near Holden Beach, NC.

Historic Track

Temporary Housing

- < 2,000 units
- 2,000 - 3,999 units
- 4,000 - 5,999 units
- 6,000 - 9,999 units
- > 10,000 units

Information provided on this page displays a Category 2 storm making landfall near Holden Beach, NC. These projections are based on information from the NHC (0900 EDT 05/14/2008) forecast. Temporary housing is based on 1% in CAT 2.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

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Sources: HURREVAC LRL-DEBRIS	Page 7 of 12

US Army Corps of Engineers

Hurricane Ernesto 2006 Temporary Housing Model

Landfall Plus About 12 Hours

For Planning Purposes Only!

State	House Units per State	County	House Units per County
North Carolina		Bladen	< 100
		Brunswick	300
		Columbus	< 100
		Duplin	< 100
		New Hanover	800
		Pender	200
		Sampson	< 100
North Carolina	1,300		

Temporary housing is based on 1% in CAT 2.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

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Hurricane Ernesto 2006 Housing Model

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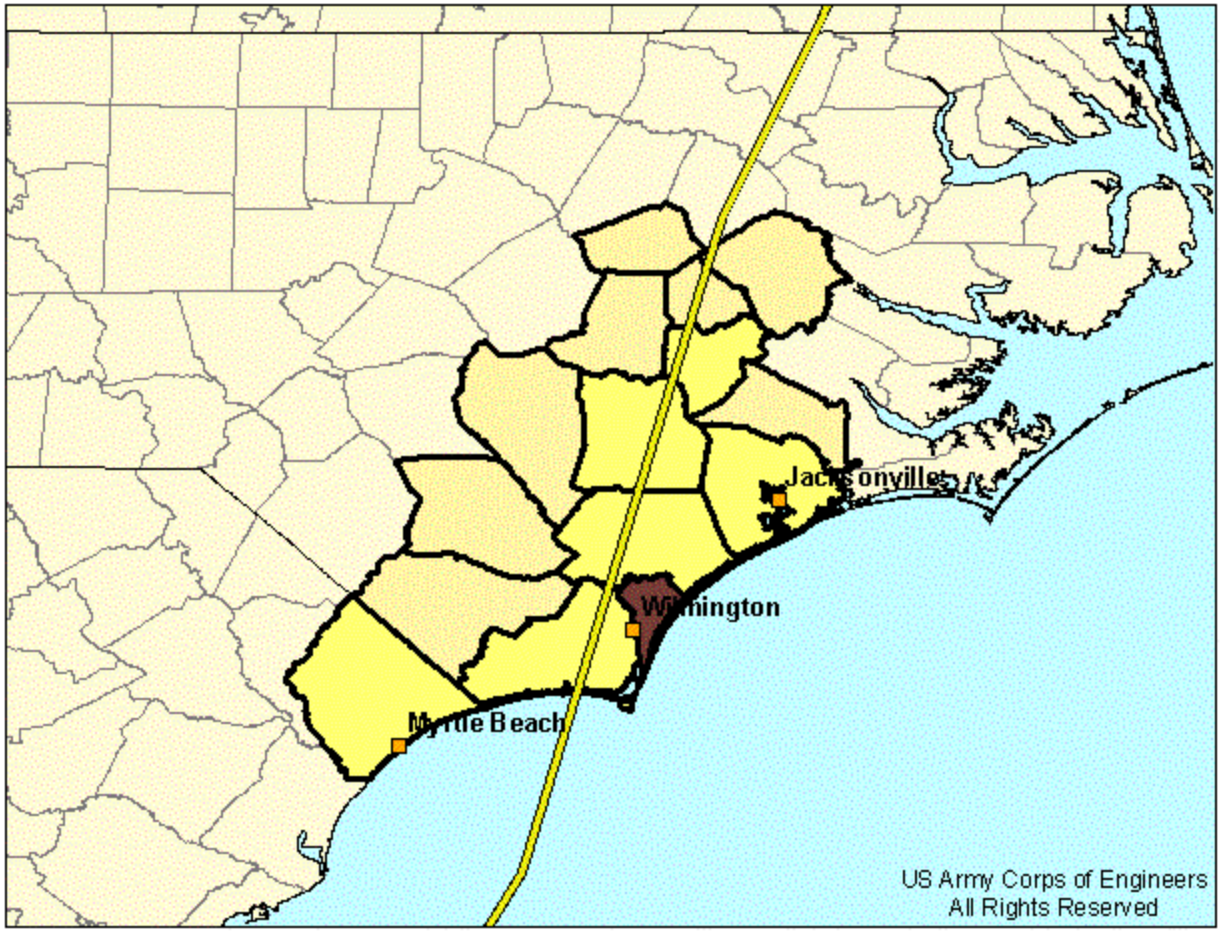
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Ernesto 2006 Population Model

Landfall Plus About 12 Hours

For Planning Purposes Only!



Post Landfall Population Model Results

North Carolina - 572,000
South Carolina - 47,000

Model results per County on following page

This model is based on a Category 2 storm making landfall near Holden Beach, NC.

Historic Track

Population

- < 25,000 persons
- 25,000 - 99,999 persons
- 100,000 - 174,999 persons
- 175,000 - 249,999 persons
- > 250,000 persons

Information provided on this page displays a Category 2 storm making landfall near Holden Beach, NC. These projections are based on information from the NHC (0900 EDT 05/14/2008) forecast. The numbers of persons included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2006 values).

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Ernesto 2006 Population Model	
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Sources: HURREVAC LRL-DEBRIS	Page 9 of 12

US Army Corps of Engineers

Hurricane Ernesto 2006 Population Model

Landfall Plus About 12 Hours

For Planning Purposes Only!

State	Population per State	County	Population per County
North Carolina		Bladen	7,000
		Brunswick	95,000
		Columbus	13,000
		Duplin	52,000
		Greene	18,000
		Jones	2,000
		Lenoir	52,000
		New Hanover	183,000
		Onslow	64,000
		Pender	49,000
		Pitt	4,000
		Sampson	11,000
		Wayne	22,000
		Wilson	< 1,000
North Carolina	572,000		
South Carolina		Horry	47,000
South Carolina	47,000		

The number of persons estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2006 values.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

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Hurricane Ernesto 2006 Population Model

Generated By:
Siemsen, LRL 0930 EDT 05/14/2008

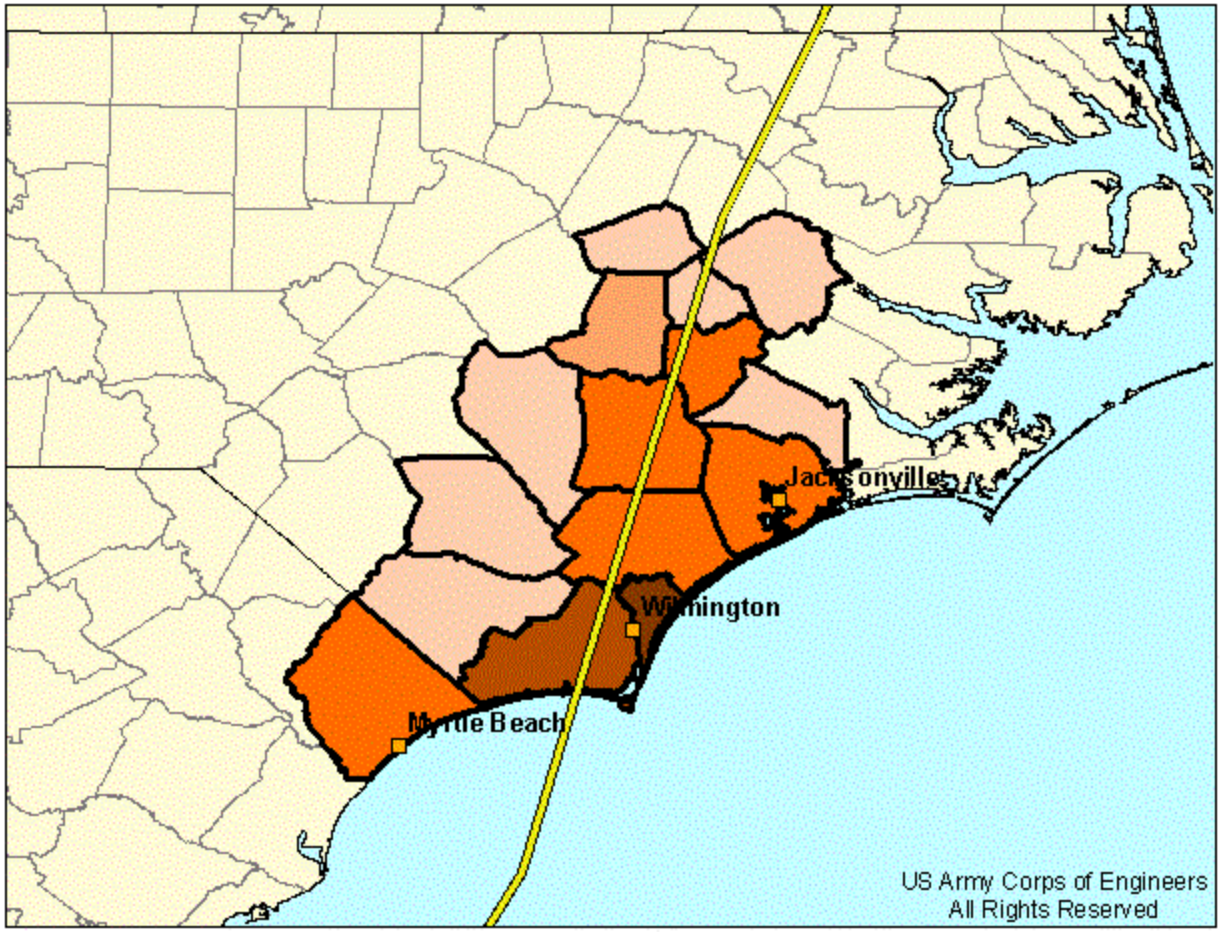
Sources:
HURREVAC
LRL-DEBRIS

Hurricane Ernesto 2006 Households Model

US Army Corps of Engineers

Landfall Plus About 12 Hours

For Planning Purposes Only!



0 100 200 Miles

Post Landfall Households Model Results

North Carolina - 232,000
South Carolina - 22,000

Model results per County on following page

This model is based on a Category 2 storm making landfall near Holden Beach, NC.

Historic Track

Households

- < 7,500 households
- 7,500 - 14,999 households
- 15,000 - 24,999 households
- 25,000 - 49,999 households
- > 50000 households

Information provided on this page displays a Category 2 storm making landfall near Holden Beach, NC. These projections are based on information from the NHC (0900 EDT 05/14/2008) forecast. The numbers of households included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2006 values).

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US Army Corps of Engineers

Hurricane Ernesto 2006 Households Model

Landfall Plus About 12 Hours

For Planning Purposes Only!

State	Households per State	County	Households per County
North Carolina		Bladen	3,000
		Brunswick	40,000
		Columbus	5,000
		Duplin	20,000
		Greene	7,000
		Jones	< 1,000
		Lenoir	21,000
		New Hanover	78,000
		Onslow	23,000
		Pender	20,000
		Pitt	2,000
		Sampson	4,000
		Wayne	9,000
		Wilson	< 1,000
North Carolina	232,000		
South Carolina		Horry	22,000
South Carolina	22,000		

The number of households estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2006 values.

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